

Amendments to the Claims:

This listing of claims will replace all prior versions, and listing, of claims in the application:

Listing of the Claims:

1. (Currently Amended) A computer readable medium for storing a set of virtual machine instructions suitable for execution in a virtual machine, the set of virtual machine instructions representing a number of corresponding Java Bytecode executable instructions that are also suitable for execution in the virtual machine,
wherein the set of the virtual machine instructions consists of a number of virtual machine instructions which is less than the number of the corresponding Java Bytecode executable instructions, and
wherein every one of the corresponding Java Bytecode executable instructions can be represented by at least one of the virtual machine instructions in the virtual machine instruction set,
wherein the set of virtual machine instructions includes at least one virtual machine instruction that represents at least one operation that cannot be represented by any one of the Java Bytecode executable instructions; and
wherein at least one virtual machine instruction in said set of virtual machines is internally represented in the virtual machine by a code stream and a data stream, wherein the code stream is suitable for containing a code portion of the at least one virtual machine instruction, and wherein the data stream is suitable for containing a data portion of the at least one virtual machine instruction.
2. (Canceled)
3. (Previously Presented) A computer readable medium for storing a set of virtual machine instructions as recited in claim 1, wherein two or more Java Bytecode executable Instructions are represented by one virtual machine instruction.

4. (Previously Presented) A computer readable medium for storing a set of virtual machine instructions as recited in claim 1, wherein at least one of the Java Bytecode executable instructions can be represented by the two or more virtual machine instructions.

5. (Previously Presented) A computer readable medium for storing a set of virtual machine instructions as recited in claim 4, wherein the least one Java Bytecode executable instruction is a conditional data flow operation.

6. (Canceled)

7. (Currently Amended) A computer readable medium for storing a set of virtual machine instructions as recited in claim 4, wherein the at least one virtual machine instruction represents a duplicate stack operation.

8-9. (Canceled)

10. (Currently Amended) A method of converting a set of Java Bytecode executable instructions into a set of executable virtual machine instructions, the method comprising:
receiving one or more bytes representing a Java Bytecode instruction suitable for execution in a virtual machine;

selecting a corresponding virtual machine instruction, the corresponding virtual machine instruction suitable for execution in the virtual machine and representing one or more operations that can be performed when the Java Bytecode instruction is executed;
wherein every one of the corresponding Java Bytecode executable instructions can be represented by at least one of the virtual machine instructions in the virtual machine instruction set and wherein the set includes at least one virtual machine instruction that represents at least one operation that cannot be represented by any one of the Java Bytecode executable instructions; and

loading the corresponding virtual machine instruction into the virtual machine as an internal representation into a pair of streams, wherein the pair of streams includes a code stream and a data stream, wherein the code stream is suitable for containing a

code portion of the at least one virtual machine instruction, and the data stream is suitable for containing a data portion of the at least one virtual machine instruction; and

wherein the virtual machine instruction can represent at least two or more Java Bytecode executable instructions such that operations that can be performed by executing the at least two or more Java Bytecode executable instructions can be performed by execution of the virtual machine instruction.

11-12. (Canceled)

13. (Currently Amended) A computer readable medium for storing a ~~set~~ Java Bytecode instruction translator operating to convert a set of Java Bytecode executable instructions suitable for execution on a virtual machine into a set of corresponding executable virtual machine instructions,

wherein the corresponding virtual machine instructions are also suitable for execution in the virtual machine and represent operations that can be performed by execution of a number of corresponding Java Bytecode instructions; and;

wherein the corresponding set of the virtual machine instructions consists of a number of virtual machine instructions that is less than the number of the corresponding Java Bytecode executable instructions;

wherein every one of the Java Bytecode instructions can be represented by at least one of the corresponding executable virtual machine instructions in the virtual machine instruction set;

wherein at least one virtual machine instruction represents an operation that cannot be represented by any one of the Java Bytecode executable instructions; and

wherein at least one virtual machine instruction is internally represented in the virtual machine by a pair of streams, wherein the code stream is suitable for containing a code portion of the at least one virtual machine instruction, and wherein the data stream is suitable for containing a data portion of the at least one virtual machine instruction.

14-15. (Canceled)

16. (Currently Amended) A computer readable medium for storing a set Java Bytecode instruction translator as recited in claim ~~46~~ 13, wherein the least one Java Bytecode executable instruction is a conditional data flow operation.

17. (Canceled)

18. (Currently Amended) A computer readable medium for storing a set Java Bytecode instruction translator as recited in claim ~~47~~ 13, wherein the at least one virtual machine instruction represents a duplicate stack operation.

19-20. (Canceled)